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Physical Distance
Constraint Determination



Enrichment of Intra-molecular
Cross-linked Proteins



Proteolysis



Peptide Analysis and Identification



Identification and Interpretation of
Cross-linked Sites on Proteins



Protein Modeling

FIGURE 1

09530330-052600

009250" 08E08560

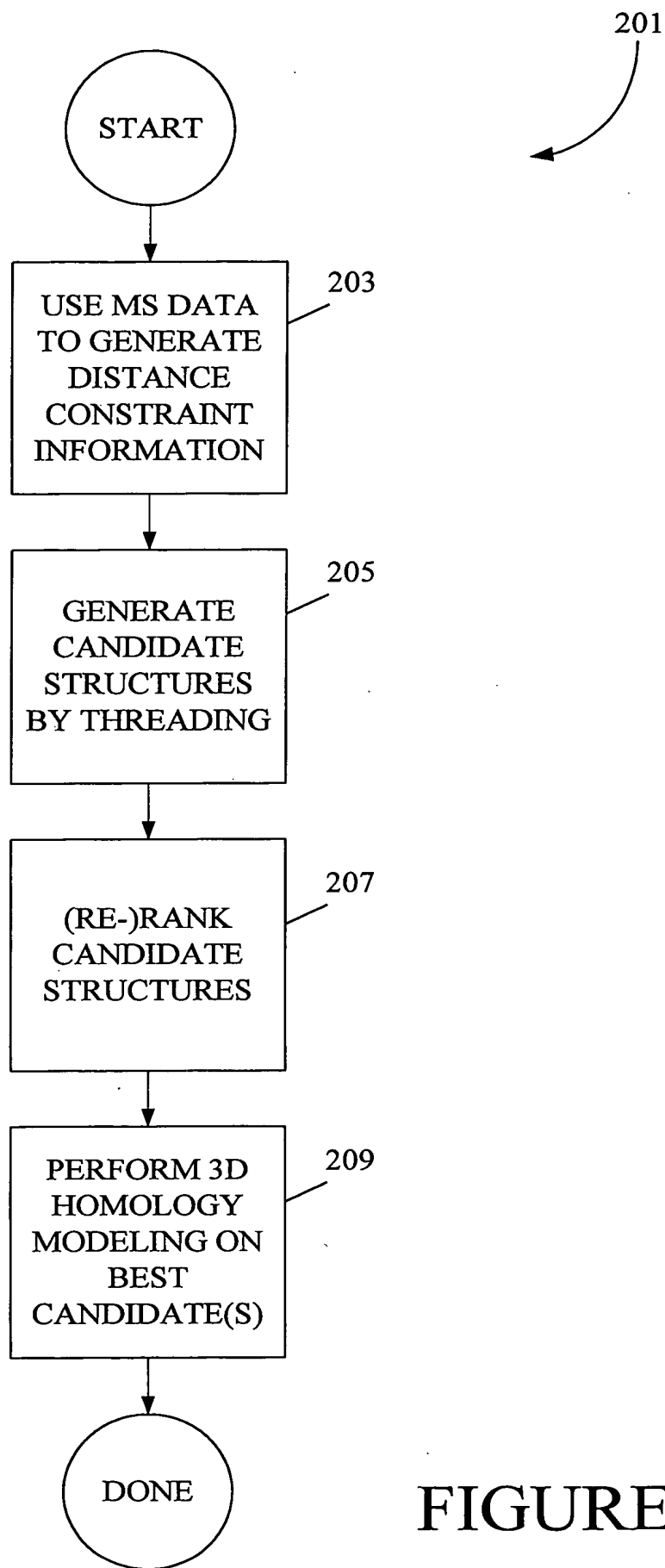


FIGURE 2

09250-0820560

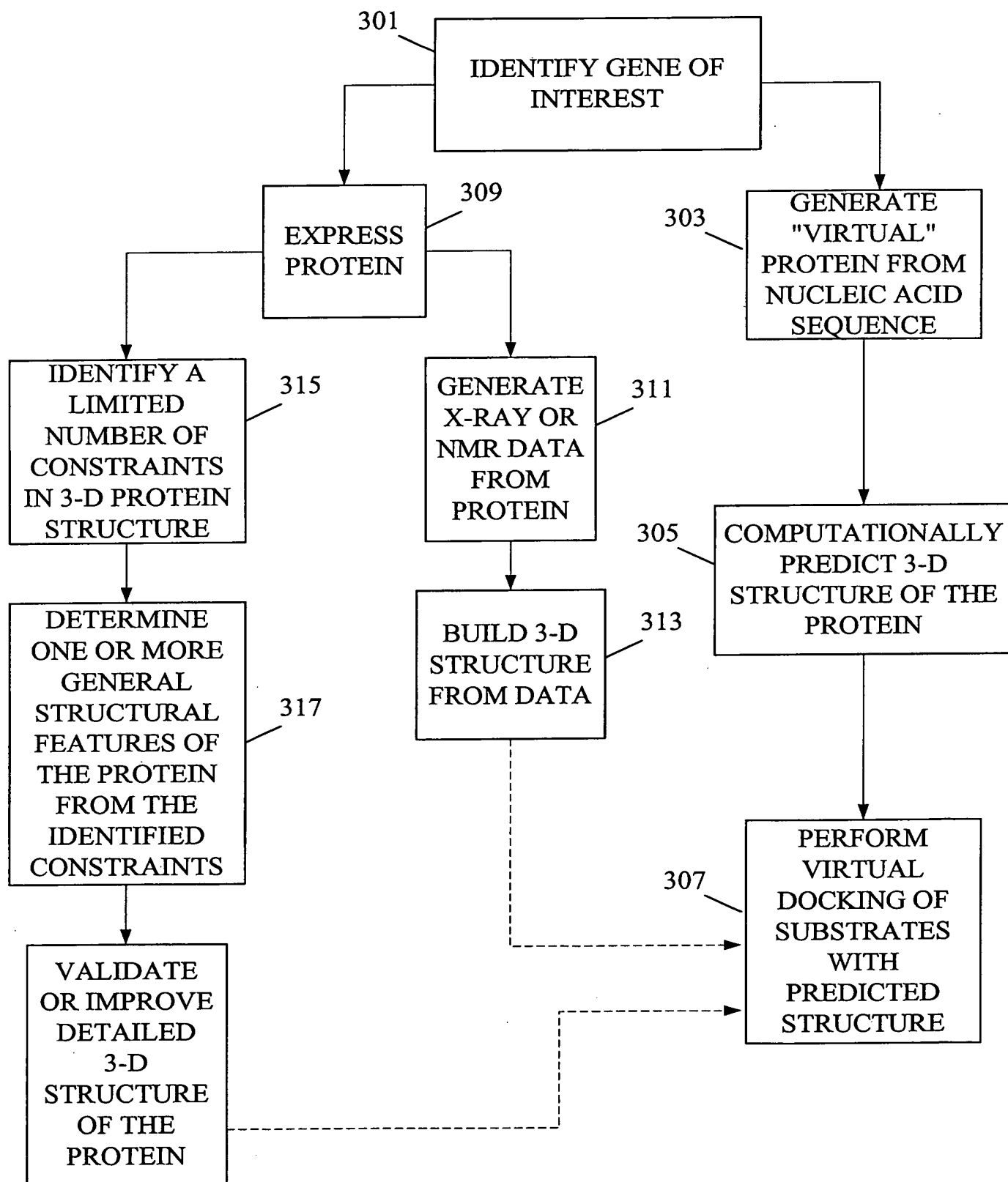


FIGURE 3

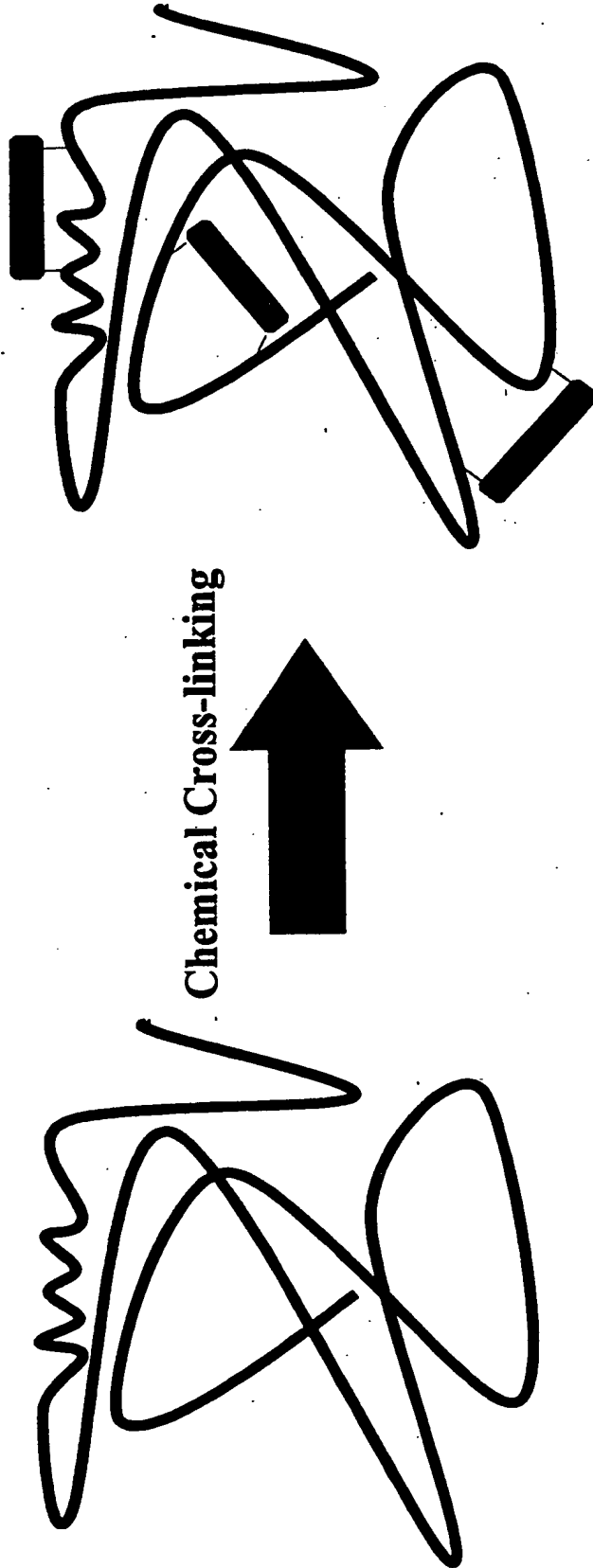
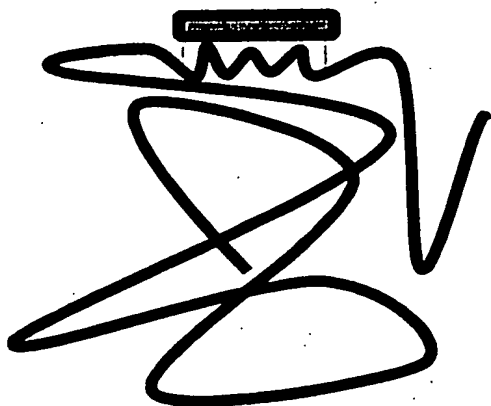
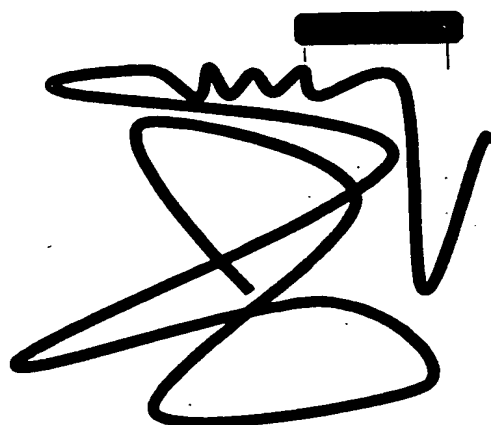


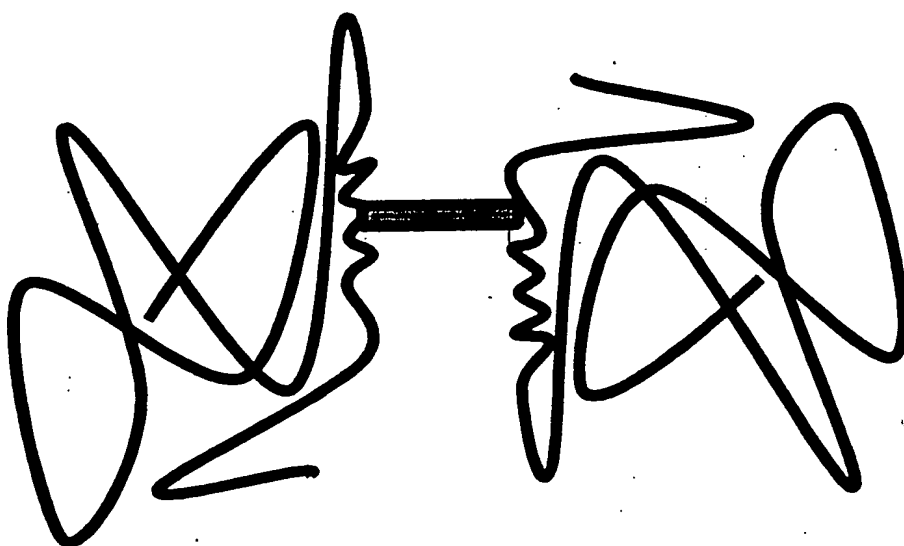
FIGURE 4



**Intramolecular
Crosslink**



**Single-site (Dead-
end) Crosslink**



**Intermolecular
Crosslink**

FIGURE 5

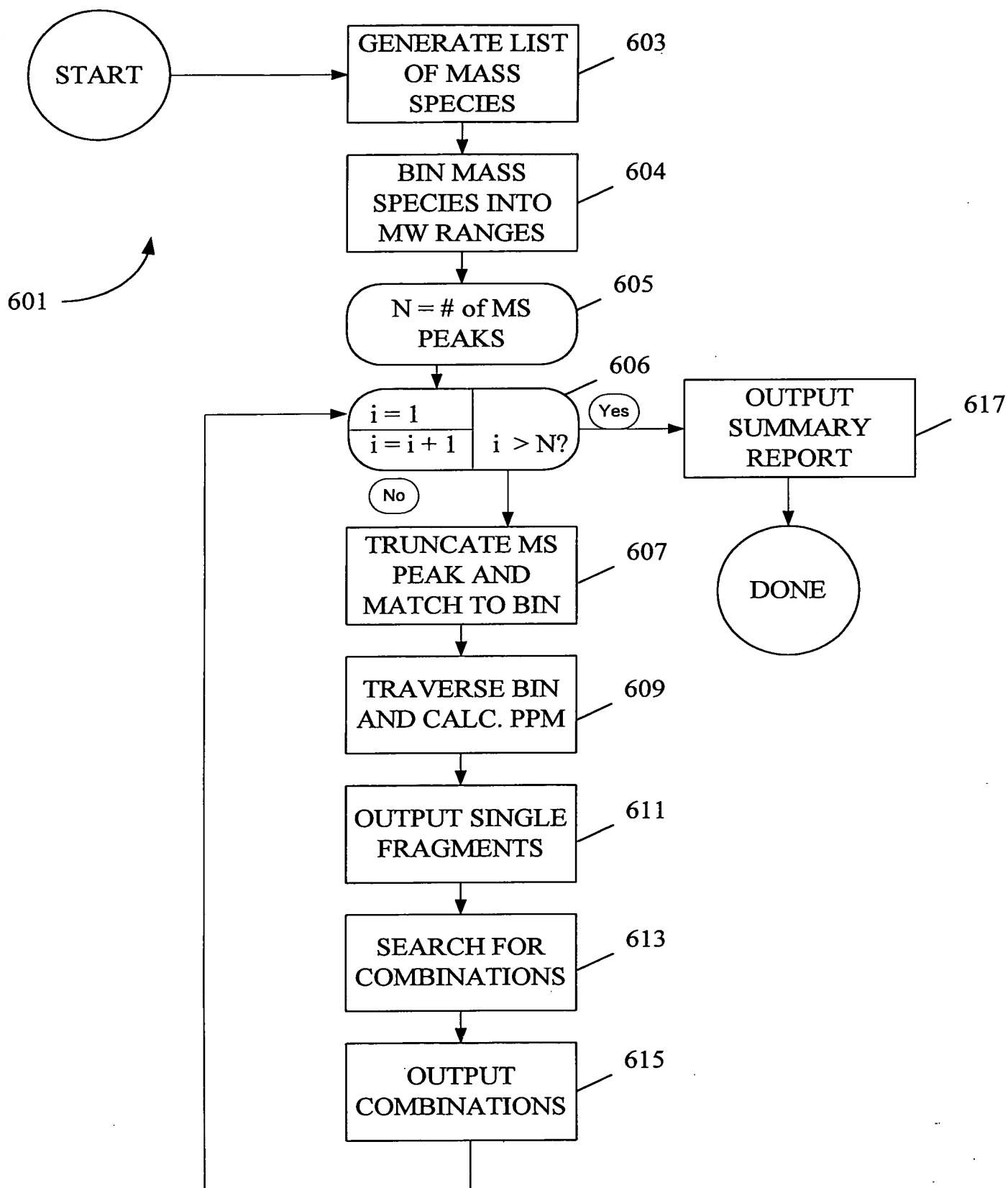


FIGURE 6

009250" 08E08550

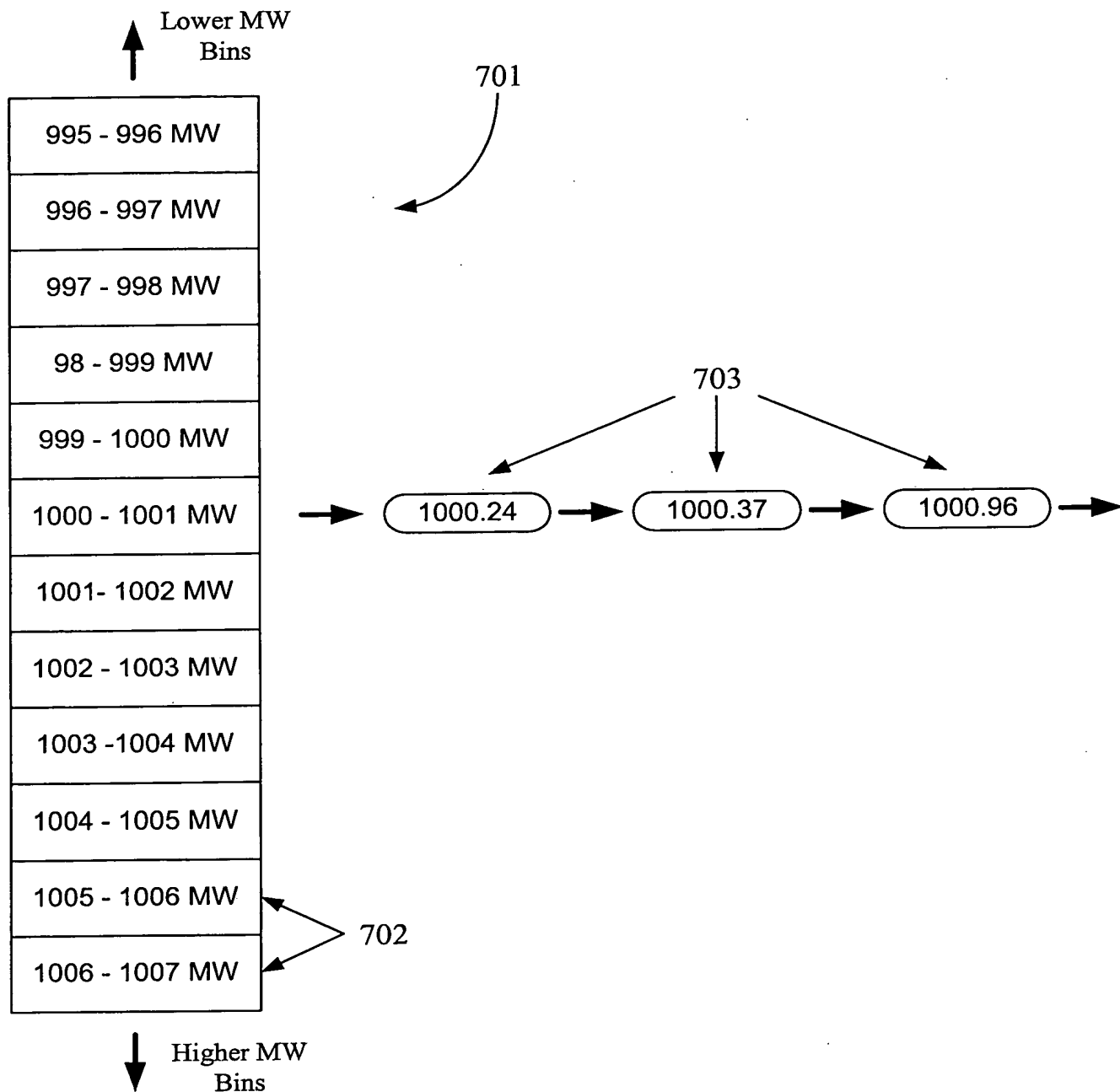


FIGURE 7

SUMMARY REPORT

INTRAfragment ASSIGNMENTS

Mass	Assignment	# Peaks	PPM Error	Crosslink
1000.24	1-10	3	4.3	5-8
1000.37	38-50	2	3.7	40-44
1000.96	57-66	2	4.4	55-61

INTERfragment ASSIGNMENTS

Mass	Assignment	# Peaks	PPM Error	Crosslink
1000.02	12-16, 68-76	3	1.9	13-68
1000.87	20-27, 81-83	3	1.7	40-44
1000.89	67-72, 95-100	2	2.6	55-61

FIGURE 8

009230" 08302560

009250-08E08560

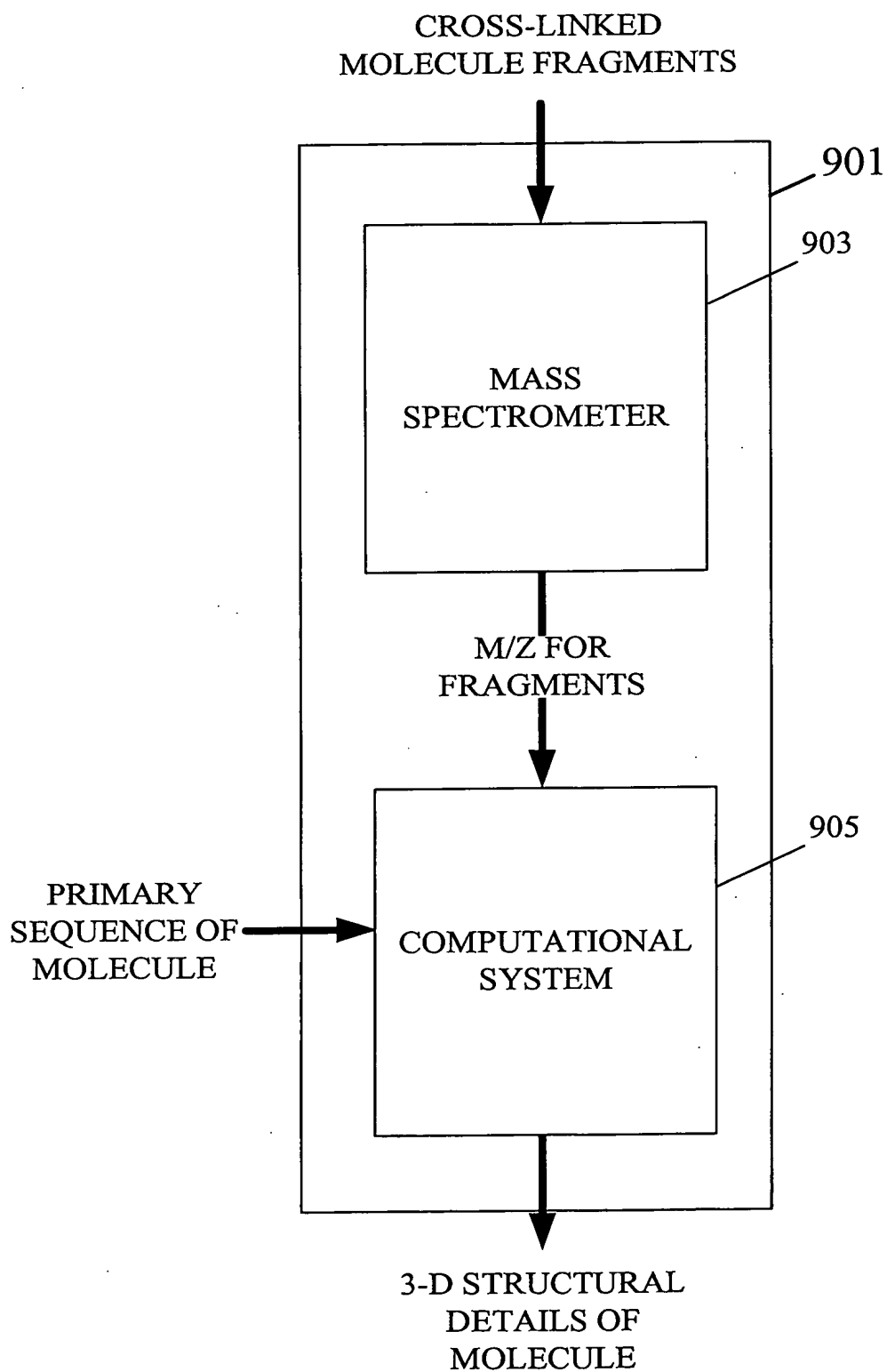


FIGURE 9

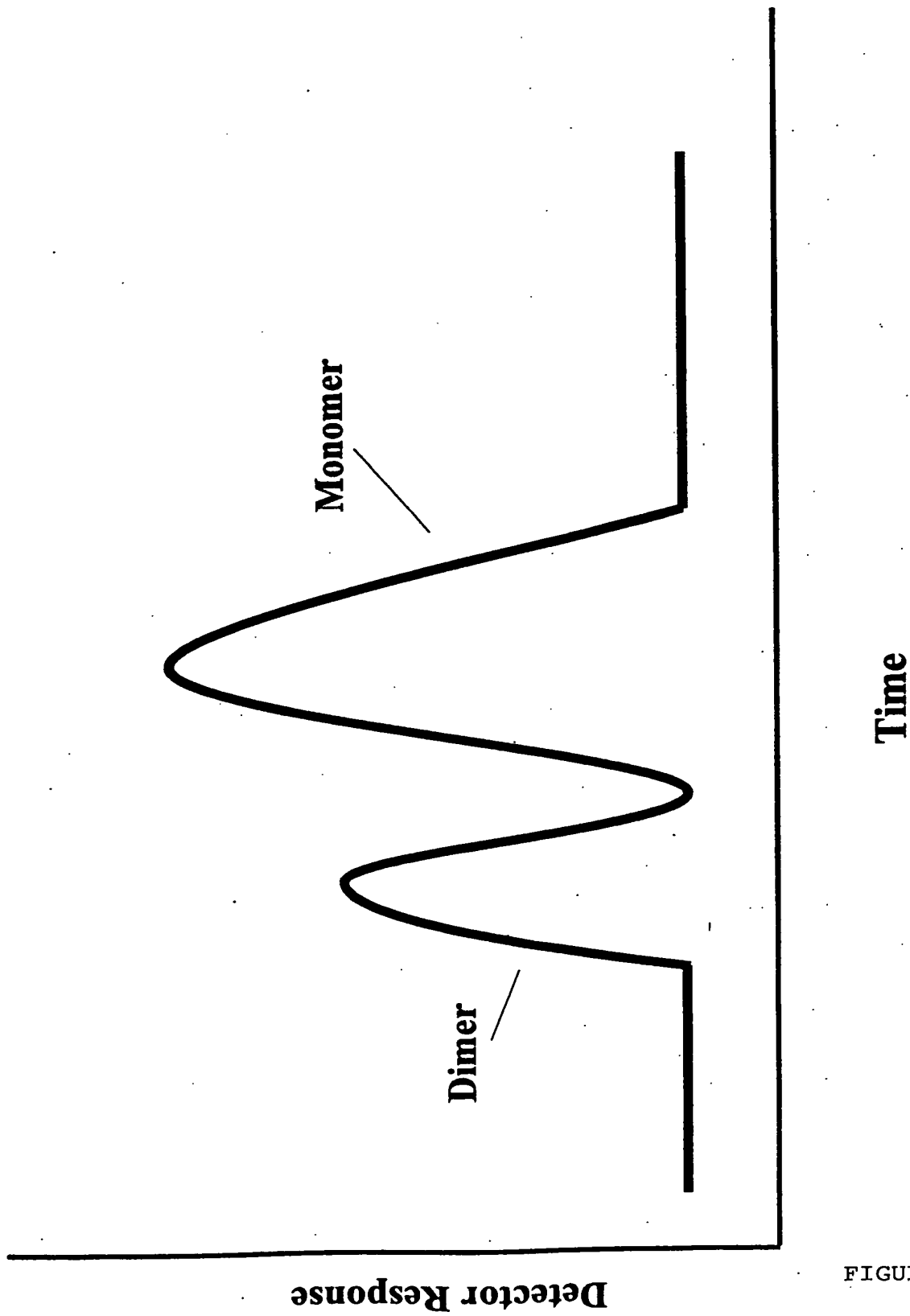
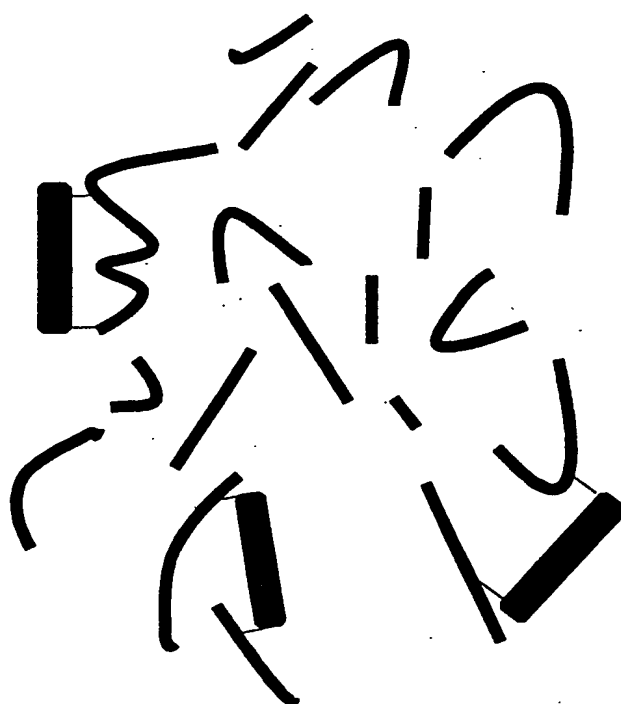


FIGURE 10



Proteolysis

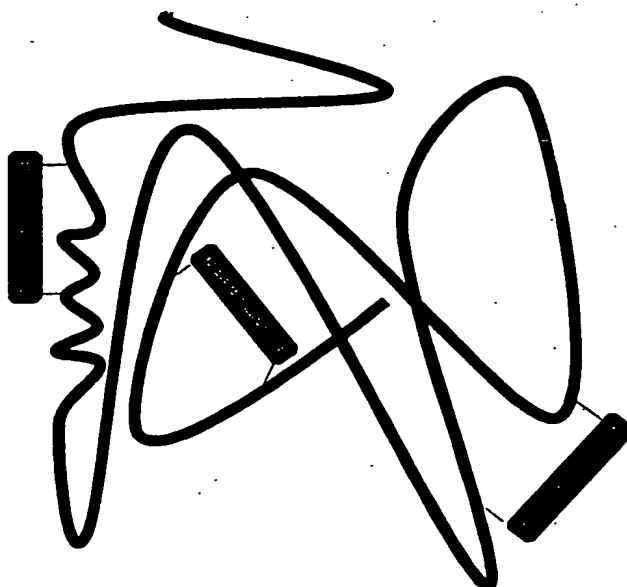
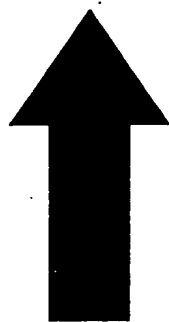


FIGURE 11

Mass Measurement

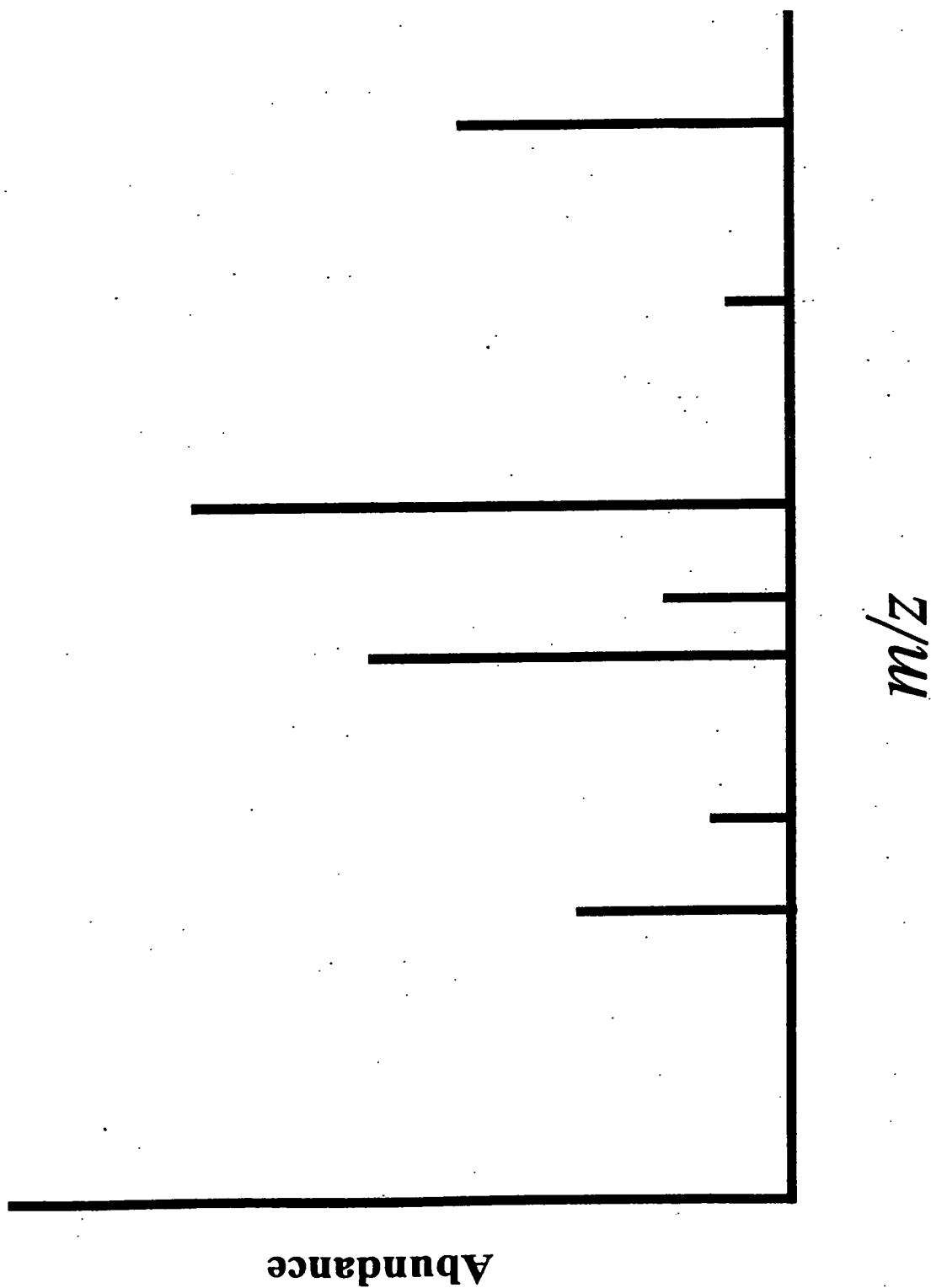


FIGURE 12

009250" 08208560

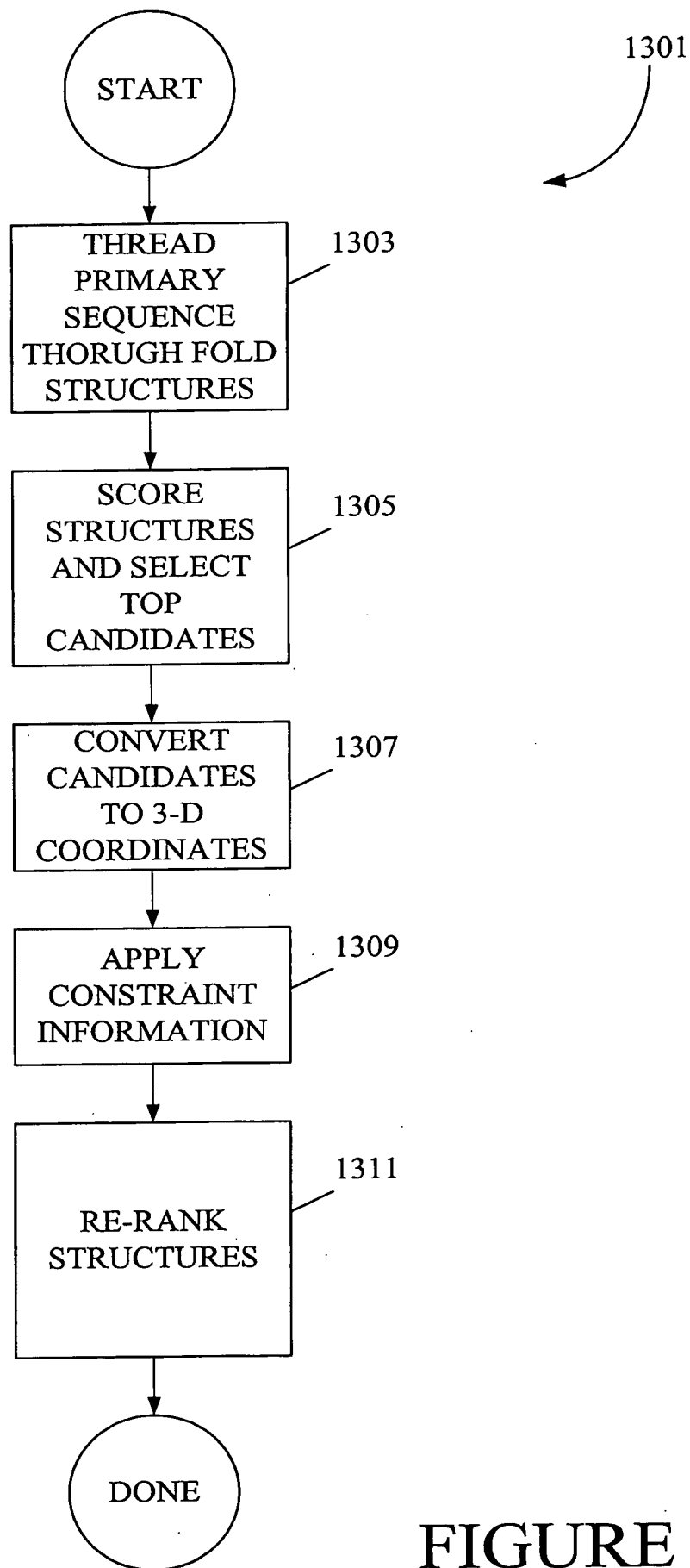


FIGURE 13

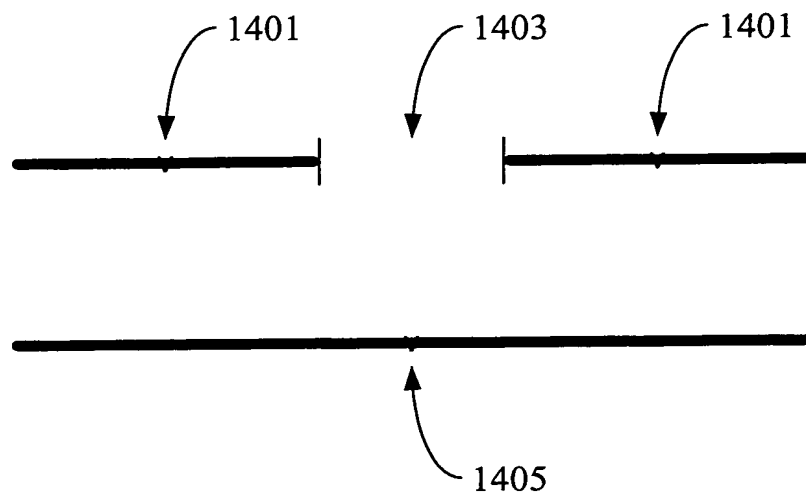


FIGURE 14A

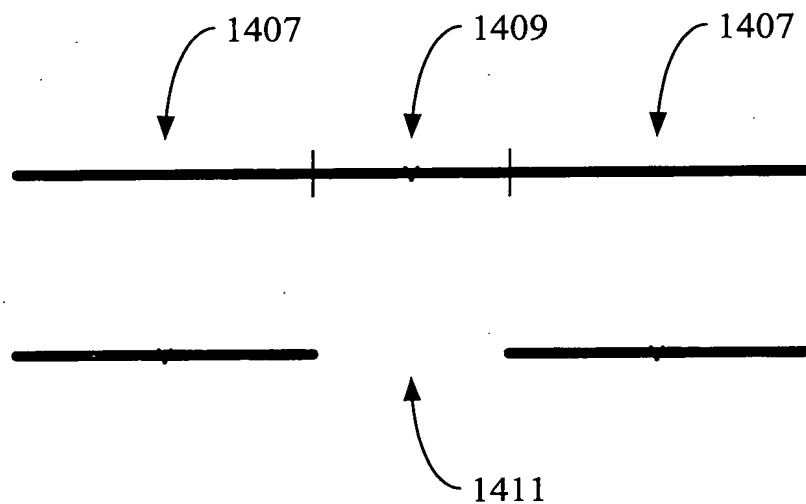


FIGURE 14B

009250" 08E08560

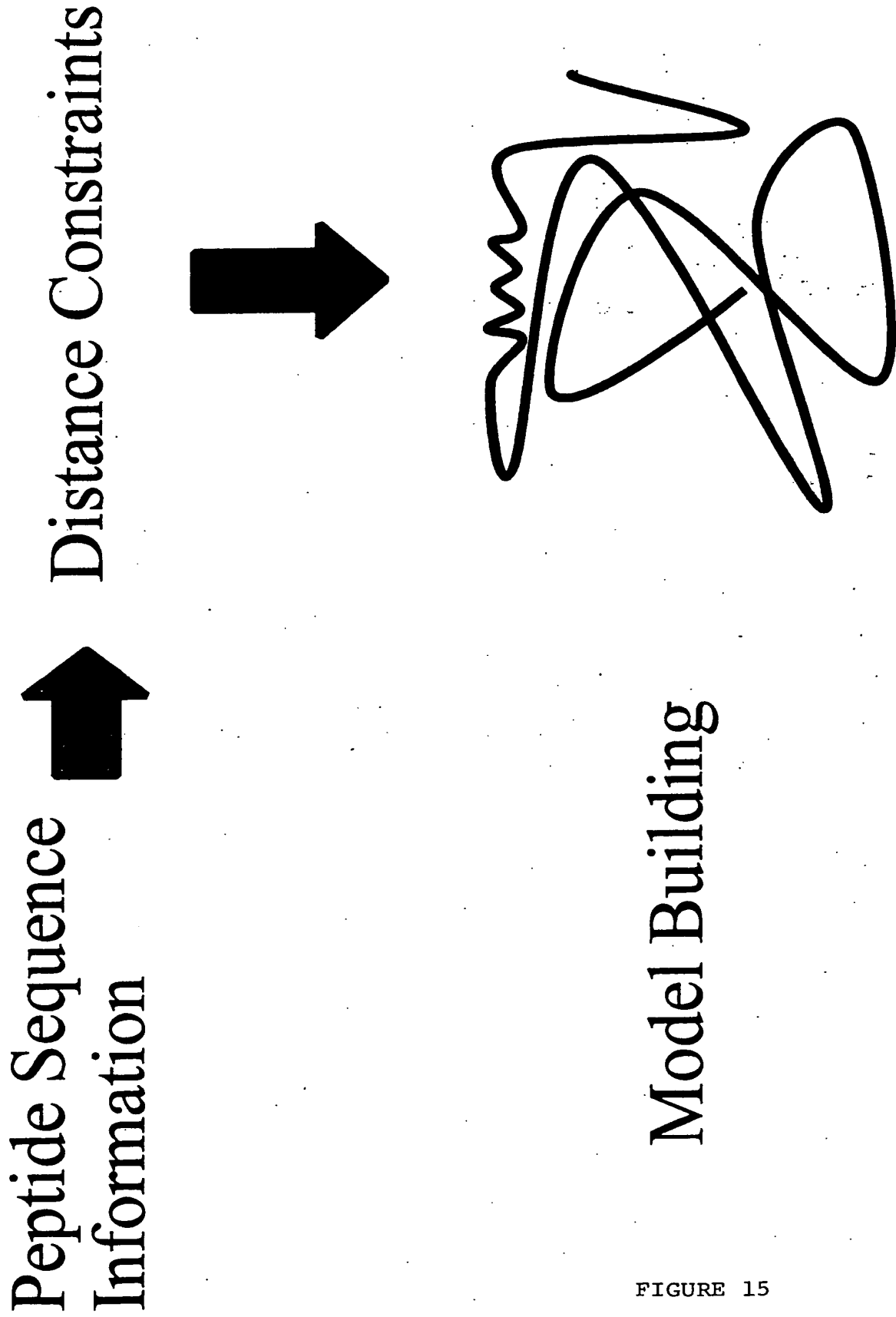


FIGURE 15

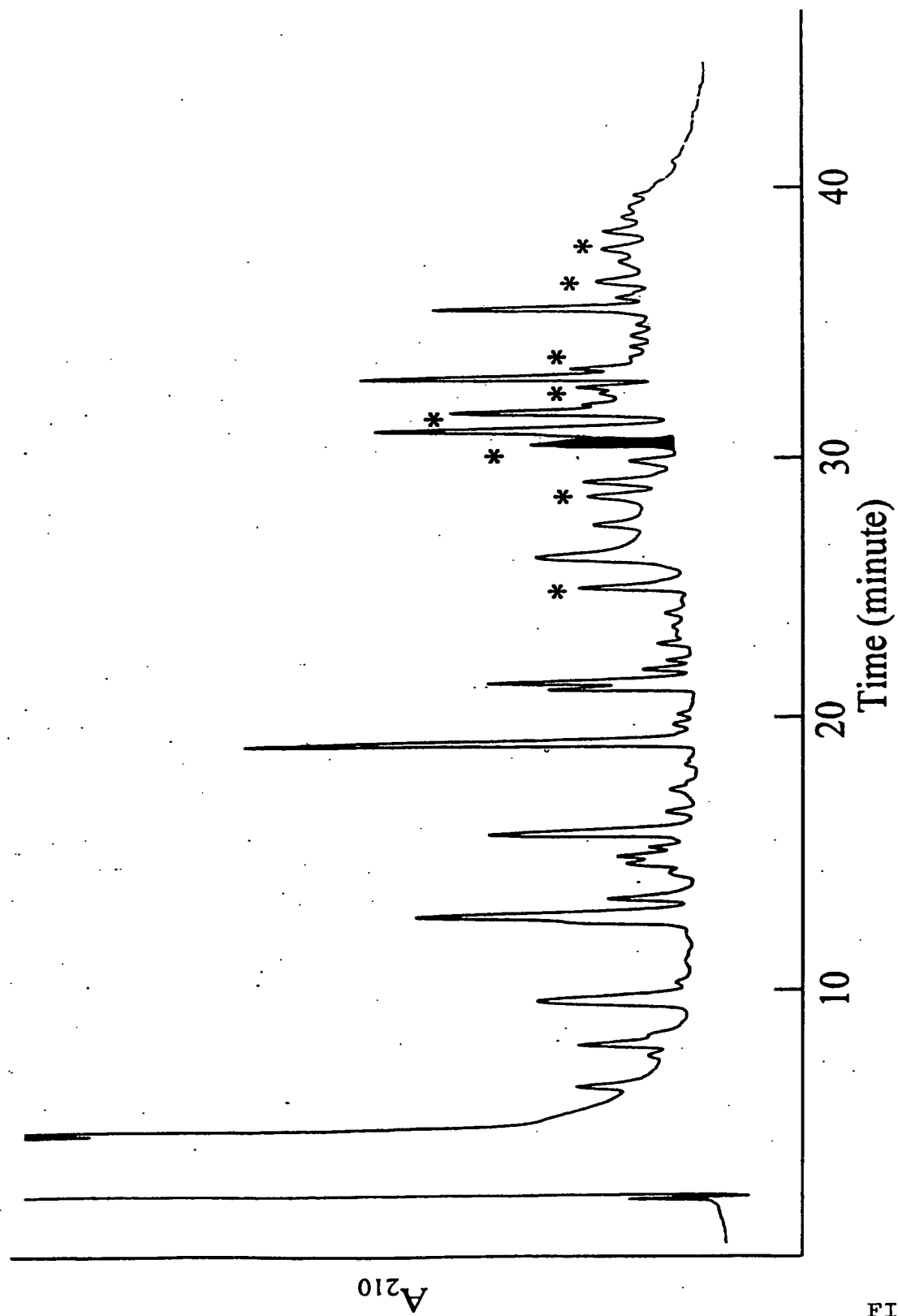


FIGURE 16

009250" 08E08360

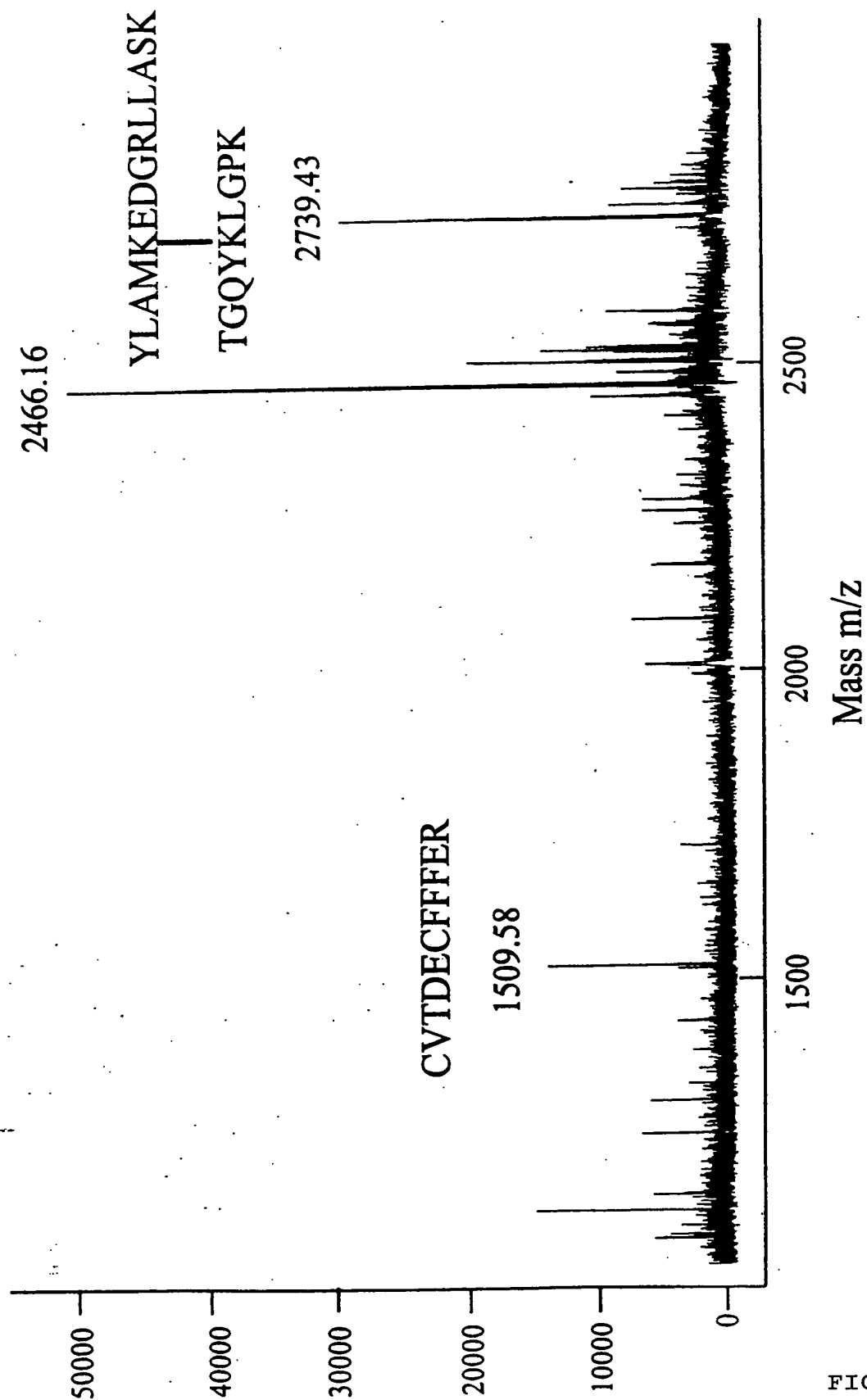


FIGURE 17

009250" 08C02560

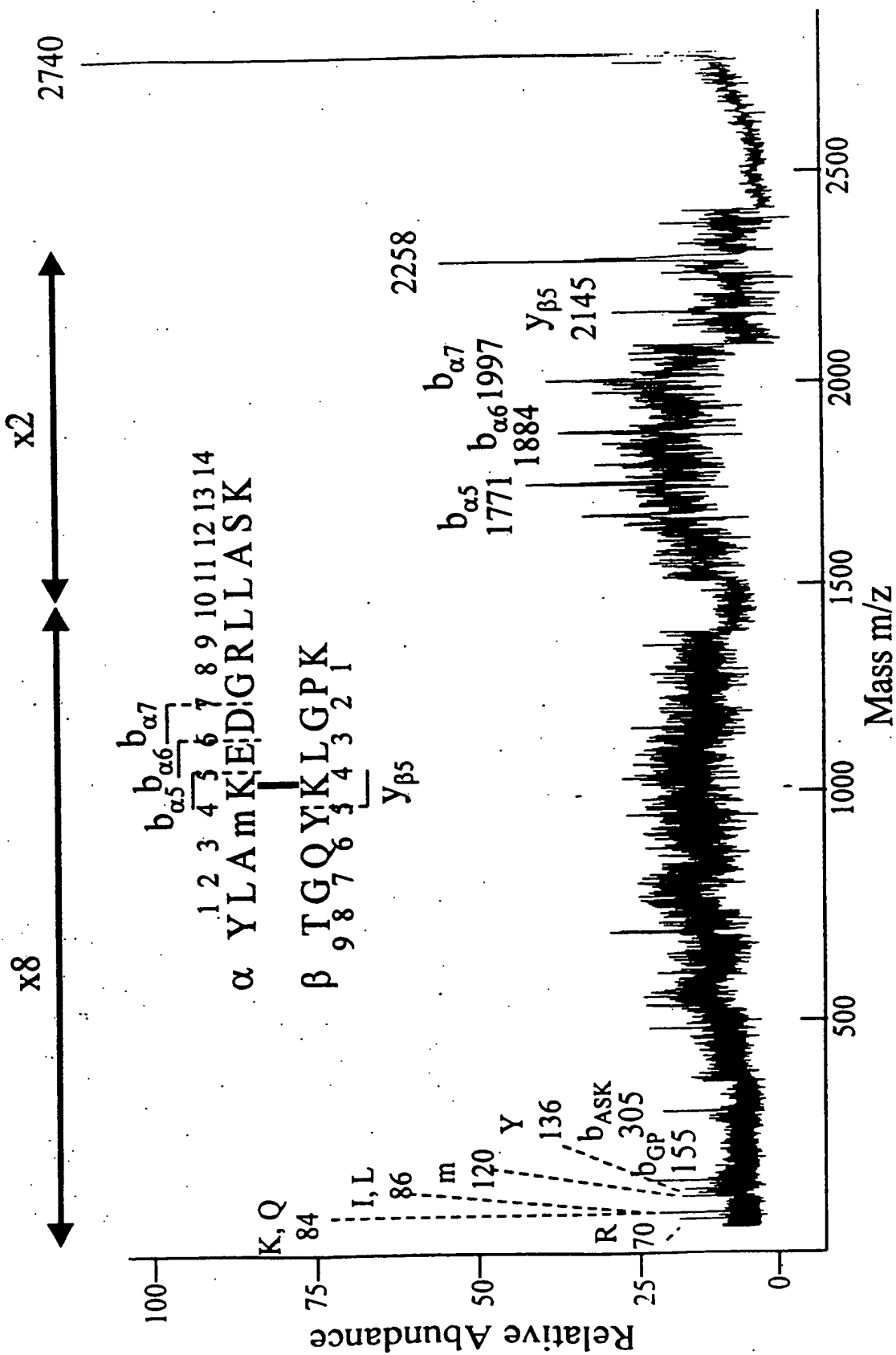


FIGURE 18

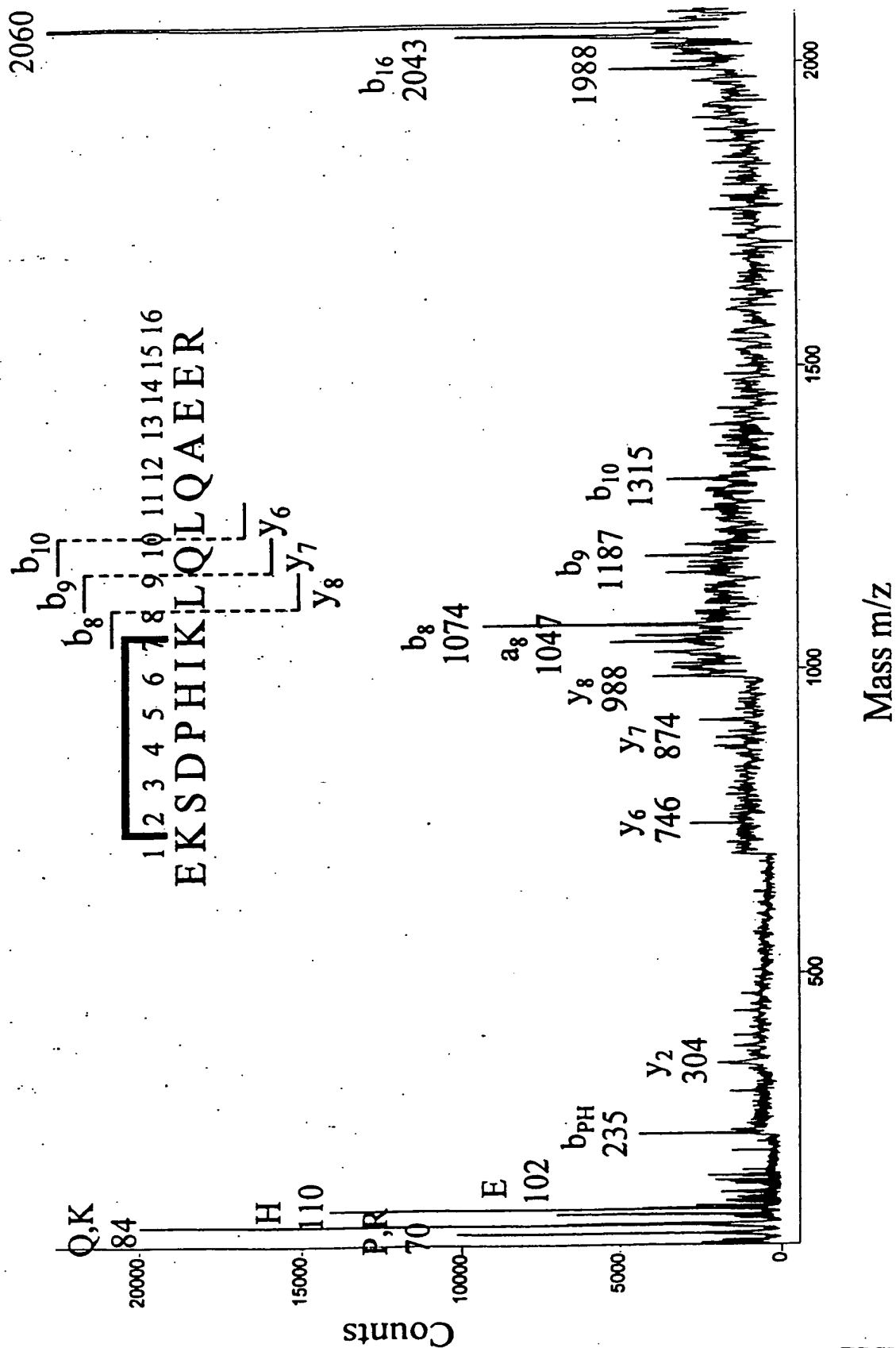


FIGURE 19A

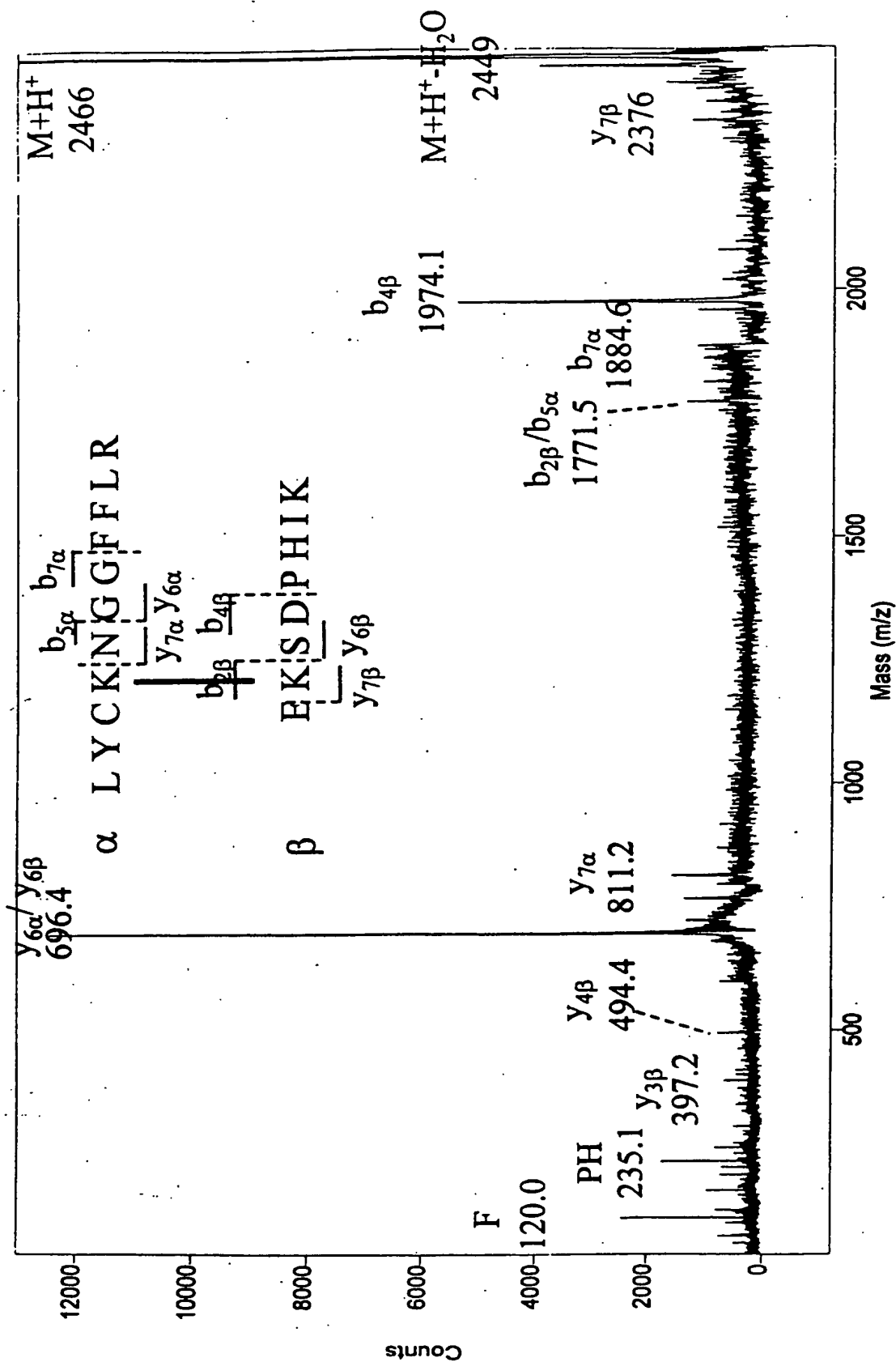


FIGURE 19B

A) IL-1 β 1 -----APVRSNCTLRDSQQKSLVMSGPYELKALHLQ---GQDMEQQVVFMSFVQGE
 FGF2 1 PALPEDGGSGAFPFGHKDPK-RLYCKNGGFFLRHPDGRVDGVREKSDPHIK---LQLQ

IL-1 β 61 ESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFFVFNKIEINNKL
 FGF2 61 AEERGVSIGVCANRYL---AMKEDGRLLASK-----CVTDECFERLESNNYN

IL-1 β 121 EFESAQFPNWIYSTQAENMPVFLGGTKGGQDITDFTMQF--VSS
 FGF2 121 TYRSRKYSSWYVALKRTGQY---KLGPKTGGQKAILFLPMSAKS

B) IL-1 β 1 APVRSNCTLRDS-QQKSLVMSGPYELKALHLQGQDMEQQ- VVFSMSFVQGEESNDKIPV
 FGF2 1 -----PKRLYCKNGGFFLRHPDGRVDGVRE----KSDPHIKLQQAEE----- RGVV

IL-1 β 61 ALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFFVFNKIEI-NNKLEFESAQF
 FGF2 61 SIKGVCANRYLAMKE---DGRLLASKC-----VTDECFERLESNNYNTYRSRKY

IL-1 β 121 PNWYISTQAENMPVFLG--GTKGGQDITDFTMQFVSS
 FGF2 121 SSWYVALKRT--GQYKLGPKTGPQ-QKAILFLPMSAKS

FIGURE 20

009250" 08E08560



- FGF-2 crystal structure (4fgf)
- Homology model based on IL-1 β

FIGURE 21

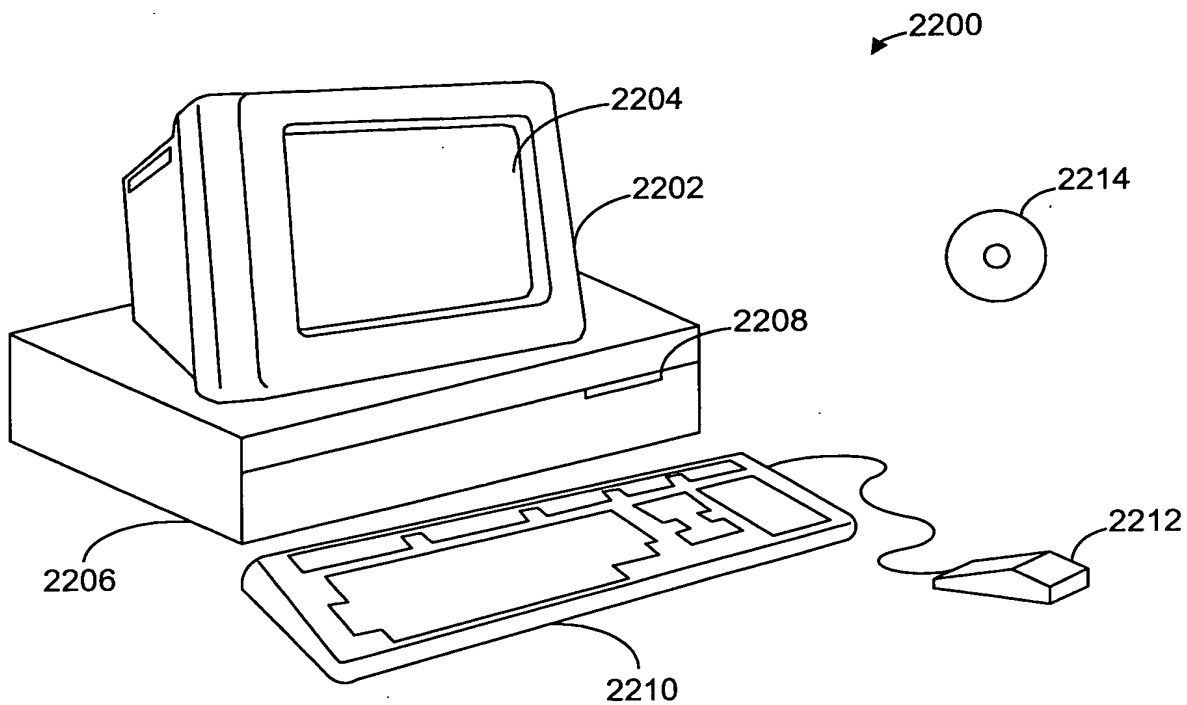


Figure 22A

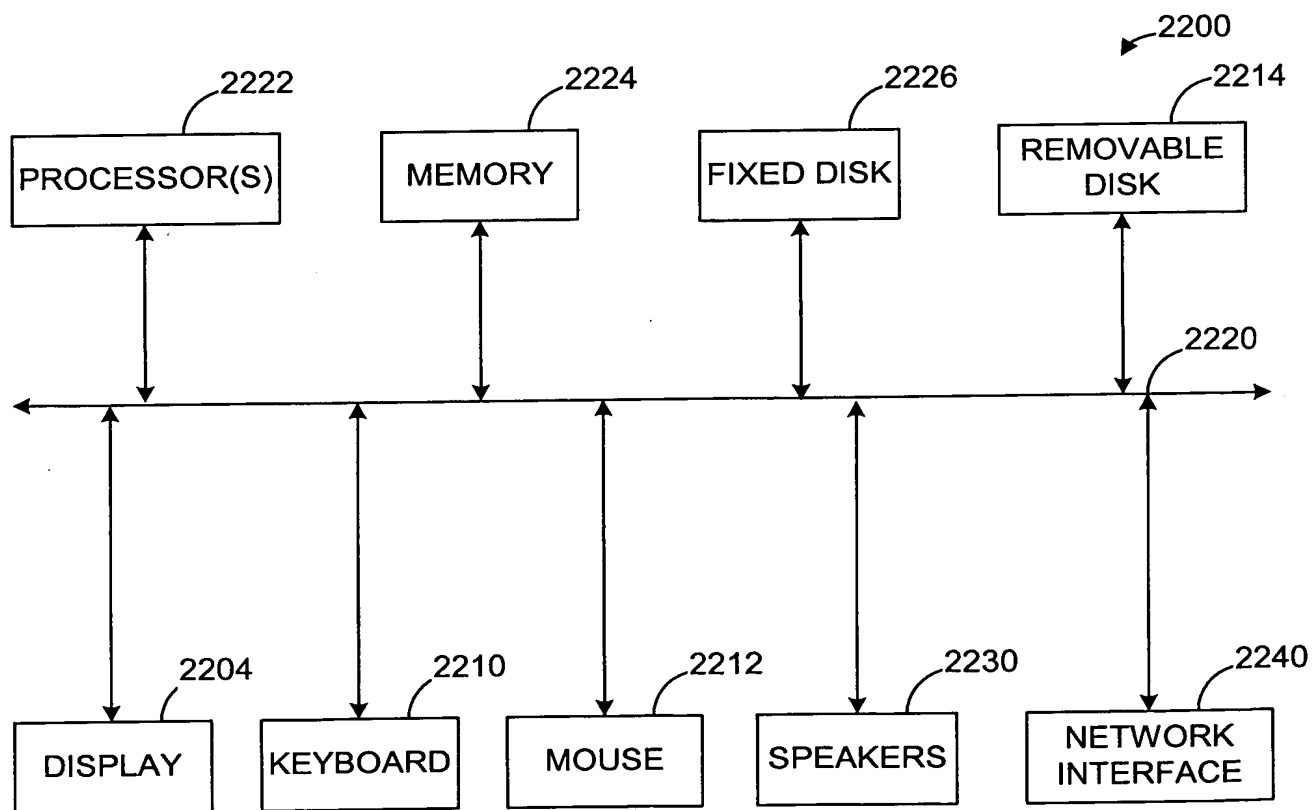


Figure 22B